

Description of Additional Supplementary Files

Supplementary Data 1.

Description: Accession numbers for reduced datasets

H5_H7_ACCESSIONS.xls

Supplementary Data 2.

Description: ML trees for the reconstructions of ancestral states

RASML_H5_H7.pdf

Supplementary Data 3.

Description: HA large-scale phylogenetic trees coloured according to amino acid states/ phenotype.

LARGE_SCALE_H5_H7.pdf

Supplementary Data 4.

Description: Likelihood Ratio Tests and PSS scored under BST

H5_H7_LRT_PSS_CODEML.xls